

0570

1119

OIPE

#3

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/888,370

DATE: 12/04/2001

TIME: 08:52:35

Input Set : N:\Crf3\RULE60\09888370.raw

Output Set: N:\CRF3\12042001\I888370.raw

ENTERED

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Glimcher, Laurie H. et al.

7 (ii) TITLE OF INVENTION: Human c-Maf Compositions and

8 Methods of Use Thereof

10 (iii) NUMBER OF SEQUENCES: 2

12 (iv) CORRESPONDENCE ADDRESS:

13 (A) ADDRESSEE: LAHIVE & COCKFIELD, LLP

14 (B) STREET: 28 State Street

15 (C) CITY: Boston

16 (D) STATE: Massachusetts

17 (E) COUNTRY: USA

18 (F) ZIP: 02109

20 (v) COMPUTER READABLE FORM:

21 (A) MEDIUM TYPE: Floppy disk

22 (B) COMPUTER: IBM PC compatible

23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

26 (vi) CURRENT APPLICATION DATA:

C--> 27 (A) APPLICATION NUMBER: US/09/888,370

C--> 28 (B) FILING DATE: 22-Jun-2001

29 (C) CLASSIFICATION:

31 (vii) PRIOR APPLICATION DATA:

32 (A) APPLICATION NUMBER: US/09/086,010

33 (B) FILING DATE:

34 (A) APPLICATION NUMBER: 09/030,579

35 (B) FILING DATE: 2-FEB-1998

37 (viii) ATTORNEY/AGENT INFORMATION:

38 (A) NAME: Kara, Catherine J.

39 (B) REGISTRATION NUMBER: 41,106

40 (C) REFERENCE/DOCKET NUMBER: HUI-027CP

42 (ix) TELECOMMUNICATION INFORMATION:

43 (A) TELEPHONE: (617)227-7400

44 (B) TELEFAX: (617)742-4214

47 (2) INFORMATION FOR SEQ ID NO: 1:

49 (i) SEQUENCE CHARACTERISTICS:

50 (A) LENGTH: 1203 base pairs

51 (B) TYPE: nucleic acid

52 (C) STRANDEDNESS: single

53 (D) TOPOLOGY: linear

55 (ii) MOLECULE TYPE: cDNA

58 (ix) FEATURE:

59 (A) NAME/KEY: CDS

60 (B) LOCATION: 1..1203

63 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

65 ATG GCA TCA GAA CTG GCA ATG AGC AAC TCC GAC CTG CCC ACC AGT CCC 48

66 Met Ala Ser Glu Leu Ala Met Ser Asn Ser Asp Leu Pro Thr Ser Pro

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/888,370

DATE: 12/04/2001

TIME: 08:52:35

Input Set : N:\Crf3\RULE60\09888370.raw

Output Set: N:\CRF3\12042001\I888370.raw

67	1		5		10		15										
69	CTG	GCC	ATG	GAA	TAT	GTT	AAT	GAC	TTC	GAT	CTG	ATG	AAG	TTT	GAA	GTG	96
70	Leu	Ala	Met	Glu	Tyr	Val	Asn	Asp	Phe	Asp	Leu	Met	Lys	Phe	Glu	Val	
71				20				25					30				
73	AAA	AAG	GAA	CCG	GTG	GAG	ACC	GAC	CGC	ATC	ATC	AGC	CAG	TGC	GGC	CGT	144
74	Lys	Lys	Glu	Pro	Val	Glu	Thr	Asp	Arg	Ile	Ile	Ser	Gln	Cys	Gly	Arg	
75			35					40					45				
77	CTC	ATC	GCC	GGG	GGC	TCG	CTG	TCC	TCC	ACC	CCC	ATG	AGC	ACG	CCC	TGC	192
78	Leu	Ile	Ala	Gly	Gly	Ser	Leu	Ser	Ser	Thr	Pro	Met	Ser	Thr	Pro	Cys	
79		50				55				60							
81	AGC	TCG	GTG	CCC	CCG	TCC	CCC	AGC	TTC	TCG	GCG	CCC	AGC	CCG	GGC	TCG	240
82	Ser	Ser	Val	Pro	Pro	Ser	Pro	Ser	Phe	Ser	Ala	Pro	Ser	Pro	Gly	Ser	
83	65					70				75				80			
85	CGA	GGC	GAA	CAG	AAG	GCG	CAC	CTG	GAA	GAC	TAC	TAC	TGG	ATG	ACC	GGC	288
86	Arg	Gly	Glu	Gln	Lys	Ala	His	Leu	Glu	Asp	Tyr	Tyr	Trp	Met	Thr	Gly	
87				85					90				95				
89	TAC	CCG	CAG	CAG	CTG	AAC	CCC	GAG	GCG	CTG	GGC	TTC	AGC	CCC	GAG	GAC	336
90	Tyr	Pro	Gln	Gln	Leu	Asn	Pro	Glu	Ala	Leu	Gly	Phe	Ser	Pro	Glu	Asp	
91			100					105				110					
93	GCG	GTC	GAG	GCG	CTC	ATC	AGC	AAC	AGC	CAC	CAG	CTC	CGG	GGC	GGC	TTC	384
94	Ala	Val	Glu	Ala	Leu	Ile	Ser	Asn	Ser	His	Gln	Leu	Arg	Gly	Gly	Phe	
95		115				120				125							
97	GAT	GGC	TAT	GCG	CGC	GGG	GCG	CAG	CAG	CTA	GCC	GCG	GCG	GCC	GGG	GCA	432
98	Asp	Gly	Tyr	Ala	Arg	Gly	Ala	Gln	Gln	Leu	Ala	Ala	Ala	Gly	Ala		
99		130				135				140							
101	GGT	GCC	GGC	GCC	TCC	TTG	GGC	GGC	AGC	GGC	GAG	GAG	ATG	GGC	CCC	GCC	480
102	Gly	Ala	Gly	Ala	Ser	Leu	Gly	Gly	Ser	Gly	Glu	Glu	Met	Gly	Pro	Ala	
103	145				150					155				160			
105	GCC	GCC	GTG	GTG	TCC	GCC	GTG	ATC	GCC	GCG	GCC	GCC	GCG	CAG	AGC	GGC	528
106	Ala	Ala	Val	Val	Ser	Ala	Val	Ile	Ala	Ala	Ala	Ala	Ala	Gln	Ser	Gly	
107				165					170				175				
109	GCG	GGC	CCG	CAC	TAC	CAC	CAC	CAC	CAC	CAC	CAC	GCC	GCC	GGC	CAC	CAC	576
110	Ala	Gly	Pro	His	Tyr	His	His	His	His	His	His	His	Ala	Ala	Gly	His	His
111			180					185				190					
113	CAC	CAC	CCG	ACG	GCC	GGC	GCG	CCC	GGC	GCC	GCG	GGC	AGC	GCG	GCC	GCT	624
114	His	His	Pro	Thr	Ala	Gly	Ala	Pro	Gly	Ala	Ala	Gly	Ser	Ala	Ala	Ala	
115		195				200				205							
117	TCG	GCC	GGT	GGC	GCT	GGG	GGC	GCG	GGC	GGC	GGT	GGC	CCG	GCC	AGC	GTT	672
118	Ser	Ala	Gly	Gly	Ala	Gly	Gly	Ala	Gly	Gly	Gly	Gly	Pro	Ala	Ser	Val	
119		210				215				220							
121	GGG	GGC	GGC	GGC	GGC	GGC	GGC	GGC	GGA	GGC	GGC	GGG	GGC	GCG	GCG		720
122	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Ala	Ala	
123	225				230					235				240			
125	GGC	GCC	CTG	CAC	CCG	CAC	CAC	GCC	GCC	GGC	GGC	CTG	CAC	TTC	GAC	GAC	768
126	Gly	Ala	Leu	His	Pro	His	His	Ala	Ala	Gly	Gly	Leu	His	Phe	Asp	Asp	
127			245					250				255					
129	CGC	TTC	TCC	GAC	GAG	CAG	CTG	GTG	ACC	ATG	TCT	GTG	CGC	GAC	TGG	AAC	816
130	Arg	Phe	Ser	Asp	Glu	Gln	Leu	Val	Thr	Met	Ser	Val	Arg	Asp	Trp	Asn	
131			260					265				270					

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/888,370

DATE: 12/04/2001

TIME: 08:52:35

Input Set : N:\Crf3\RULE60\09888370.raw

Output Set: N:\CRF3\12042001\I888370.raw

```

133 CGG CAG CTG CGC GGG GTC AGC AAG GAG GAG GTG ATC CGG CTG AAG CAG      864
134 Arg Gln Leu Arg Gly Val Ser Lys Glu Glu Val Ile Arg Leu Lys Gln
135      275      280      285
137 AAG AGG CGG ACC CTG AAA AAC CGC GGC TAT GCC AAG TCC TGC CGC TTC      912
138 Lys Arg Arg Thr Leu Lys Asn Arg Gly Tyr Ala Lys Ser Cys Arg Phe
139      290      295      300
141 AAG AGG GTG CAG CAG AGA CAC GTC CTG GAG TCG GAG AAG AAC CAG CTG      960
142 Lys Arg Val Gln Gln Arg His Val Leu Glu Ser Glu Lys Asn Gln Leu
143 305      310      315      320
145 CTG CAG CAA GTC GAC CAC CTC AAG CAG GAG ATC TCC AGG CTG GTG CGC      1008
146 Leu Gln Gln Val Asp His Leu Lys Gln Glu Ile Ser Arg Leu Val Arg
147      325      330      335
149 GAG AGG GAC GCG TAC AAG GAG AAA TAC GAG AAG TTG GTG AGC AGC GGC      1056
150 Glu Arg Asp Ala Tyr Lys Glu Lys Tyr Glu Lys Leu Val Ser Ser Gly
151      340      345      350
153 TTC CGA GAA AAC GGC TCG AGC AGC GAC AAC CCG TCC TCT CCC GAG TTT      1104
154 Phe Arg Glu Asn Gly Ser Ser Ser Asp Asn Pro Ser Ser Pro Glu Phe
155      355      360      365
157 TTC ATA ACT GAG CCC ACT CGC AAG TTG GAG CCA TCA GTG GGA TAC GCC      1152
158 Phe Ile Thr Glu Pro Thr Arg Lys Leu Glu Pro Ser Val Gly Tyr Ala
159      370      375      380
161 ACA TTT TGG AAG CCC CAG CAT CGT GTA CTT ACC AGT GTG TTC ACA AAA      1200
162 Thr Phe Trp Lys Pro Gln His Arg Val Leu Thr Ser Val Phe Thr Lys
163 385      390      395      400
165 TGA      1203
170 (2) INFORMATION FOR SEQ ID NO: 2:
172 (i) SEQUENCE CHARACTERISTICS:
173 (A) LENGTH: 400 amino acids
174 (B) TYPE: amino acid
175 (D) TOPOLOGY: linear
177 (ii) MOLECULE TYPE: protein
179 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
181 Met Ala Ser Glu Leu Ala Met Ser Asn Ser Asp Leu Pro Thr Ser Pro
182 1      5      10      15
184 Leu Ala Met Glu Tyr Val Asn Asp Phe Asp Leu Met Lys Phe Glu Val
185      20      25      30
187 Lys Lys Glu Pro Val Glu Thr Asp Arg Ile Ile Ser Gln Cys Gly Arg
188      35      40      45
190 Leu Ile Ala Gly Gly Ser Leu Ser Ser Thr Pro Met Ser Thr Pro Cys
191      50      55      60
193 Ser Ser Val Pro Pro Ser Pro Ser Phe Ser Ala Pro Ser Pro Gly Ser
194 65      70      75      80
196 Arg Gly Glu Gln Lys Ala His Leu Glu Asp Tyr Tyr Trp Met Thr Gly
197      85      90      95
199 Tyr Pro Gln Gln Leu Asn Pro Glu Ala Leu Gly Phe Ser Pro Glu Asp
200      100      105      110
202 Ala Val Glu Ala Leu Ile Ser Asn Ser His Gln Leu Arg Gly Gly Phe
203      115      120      125
205 Asp Gly Tyr Ala Arg Gly Ala Gln Gln Leu Ala Ala Ala Ala Gly Ala

```

RAW SEQUENCE LISTING

DATE: 12/04/2001

PATENT APPLICATION: US/09/888,370

TIME: 08:52:35

Input Set : N:\Crf3\RULE60\09888370.raw

Output Set: N:\CRF3\12042001\I888370.raw

206	130		135		140														
208	Gly	Ala	Gly	Ala	Ser	Leu	Gly	Gly	Ser	Gly	Glu	Glu	Met	Gly	Pro	Ala			
209	145					150				155						160			
211	Ala	Ala	Val	Val	Ser	Ala	Val	Ile	Ala	Ala	Ala	Ala	Ala	Gln	Ser	Gly			
212					165					170						175			
214	Ala	Gly	Pro	His	Tyr	His	His	His	His	His	His	Ala	Ala	Gly	His	His			
215				180					185					190					
217	His	His	Pro	Thr	Ala	Gly	Ala	Pro	Gly	Ala	Ala	Gly	Ser	Ala	Ala	Ala			
218			195					200					205						
220	Ser	Ala	Gly	Gly	Ala	Gly	Gly	Ala	Gly	Gly	Gly	Gly	Pro	Ala	Ser	Val			
221		210				215						220							
223	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Ala	Ala		
224	225					230					235					240			
226	Gly	Ala	Leu	His	Pro	His	His	Ala	Ala	Gly	Gly	Leu	His	Phe	Asp	Asp			
227				245					250					255					
229	Arg	Phe	Ser	Asp	Glu	Gln	Leu	Val	Thr	Met	Ser	Val	Arg	Asp	Trp	Asn			
230				260					265					270					
232	Arg	Gln	Leu	Arg	Gly	Val	Ser	Lys	Glu	Glu	Val	Ile	Arg	Leu	Lys	Gln			
233			275					280					285						
235	Lys	Arg	Arg	Thr	Leu	Lys	Asn	Arg	Gly	Tyr	Ala	Lys	Ser	Cys	Arg	Phe			
236		290				295						300							
238	Lys	Arg	Val	Gln	Gln	Arg	His	Val	Leu	Glu	Ser	Glu	Lys	Asn	Gln	Leu			
239	305					310					315					320			
241	Leu	Gln	Gln	Val	Asp	His	Leu	Lys	Gln	Glu	Ile	Ser	Arg	Leu	Val	Arg			
242				325						330				335					
244	Glu	Arg	Asp	Ala	Tyr	Lys	Glu	Lys	Tyr	Glu	Lys	Leu	Val	Ser	Ser	Gly			
245			340						345					350					
247	Phe	Arg	Glu	Asn	Gly	Ser	Ser	Ser	Asp	Asn	Pro	Ser	Ser	Pro	Glu	Phe			
248			355					360					365						
250	Phe	Ile	Thr	Glu	Pro	Thr	Arg	Lys	Leu	Glu	Pro	Ser	Val	Gly	Tyr	Ala			
251		370				375						380							
253	Thr	Phe	Trp	Lys	Pro	Gln	His	Arg	Val	Leu	Thr	Ser	Val	Phe	Thr	Lys			
254	385					390					395					400			

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/888,370

DATE: 12/04/2001

TIME: 08:52:36

Input Set : N:\Crf3\RULE60\09888370.raw

Output Set: N:\CRF3\12042001\I888370.raw

L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]